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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/539,966	03/31/2000	Stephen D. Macarthur	07072-101001	2142	
22494	7590 10/22/20)2			
	OWLEY & MOFFO	EXAMINER			
	PIKE STREET	NGUYEN, MIKE			
CANTON,	MA 02021-2310		ART UNIT	PAPER NUMBER	
			2182		
			DATE MAILED: 10/22/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

The

•		Application N	lo.	Applicant(s)		P
\$		09/539,966	09/539,966		MACARTHUR, STEPHEN D.	
•	Office Action Summary	Examiner	Examiner Ar			
		Mike Nguyen		2182		
Period fo	The MAILING DATE of this communication apor Reply			orrespondence ad	idress	
THE - Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailing adequates the mail of the property of t	136(a). In no event, h ply within the statutory d will apply and will exp te, cause the application	owever, may a reply be tim minimum of thirty (30) days ire SIX (6) MONTHS from to to to become ABANDONED	ely filed will be considered time he mailing date of this c 0 (35 U.S.C. § 133).		
1)[Responsive to communication(s) filed on 04	February 2002				
2a)□		his action is nor				
3)□	Since this application is in condition for allow			osecution as to th	ne merits is	
,	closed in accordance with the practice unde ion of Claims					
4)⊠	Claim(s) 1-14 is/are pending in the application	on.				
	4a) Of the above claim(s) is/are withdr	awn from consid	eration.			
5) 🗌	Claim(s) is/are allowed.					
6)⊠	Claim(s) 1-14 is/are rejected.					
7) 🗌	Claim(s) is/are objected to.					
8)□	Claim(s) are subject to restriction and	or election requi	irement.			
Applicati	ion Papers					
9) 🗌 🤈	The specification is objected to by the Examin	er.				
10)🛛	The drawing(s) filed on 31 March 2002 is/are:	a) accepted or	b)⊠ objected to by	the Examiner.		
	Applicant may not request that any objection to t	he drawing(s) be	held in abeyance. Se	e 37 CFR 1.85(a).		
11)	The proposed drawing correction filed on	is: a)∏ appro	oved b)□ disappro	ved by the Examin	er.	
	If approved, corrected drawings are required in r	eply to this Office	action.			
12) 🗌	The oath or declaration is objected to by the E	xaminer.				
Priority (ınder 35 U.S.C. §§ 119 and 120					
13)	Acknowledgment is made of a claim for foreign	gn priority under	35 U.S.C. § 119(a)	-(d) or (f).		
a)	☐ All b)☐ Some * c)☐ None of:					
	1. Certified copies of the priority documer	nts have been re	ceived.			
	2. Certified copies of the priority documer	nts have been re	ceived in Application	on No		
	3. Copies of the certified copies of the pri application from the International B			d in this National	Stage	
* 5	See the attached detailed Office action for a lis	t of the certified	copies not received	d.		
14) 🗌 A	Acknowledgment is made of a claim for domes	tic priority under	35 U.S.C. § 119(e) (to a provisiona	l application).
) ☐ The translation of the foreign language p Acknowledgment is made of a claim for dome:	• •				
Attachmen	t(s)					
2) 🔲 Notic	re of References Cited (PTO-892) re of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	4) [5) [6) [(PTO-413) Paper No atent Application (PT		
S. Patent and T	rademark Office	Action Summary		Part of	Paper No. 14	

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DETAILED ACTION

1. Claims 1-14 are pending for the examination.

Drawings

2. This application has been filed with informal drawings which are acceptable for examination purposes only. Formal drawings will be required when the application is allowed.

Claim Rejections - 35 USC § 102

- 3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Martin et al. (U.S. Pat. No. 5,214,768).
- 5. As to claim 1, Martin teaches a system interface comprising:
- (a) a plurality of first director boards (see figure 1 element 12 and column 5 lines 20-26), each one of the first director boards having:
- (i) a plurality of first directors (see figure 1 elements 14, 16, 18, 19 and column 5 lines 20-30); and
- (ii) a crossbar switch having input/output ports coupled to the first directors on such one of the first director boards and a pair of input/output ports (see figure 1 elements 42 and column 5 lines 49-58 and figure 7 element 224);
- (b) a plurality of second director boards (see figure 1 element 56 and column 5 lines 53-58), each one of the second directors boards having:
 - (i) a plurality of second directors (see figure 1 element 48 and column 5 lines 49-58); and

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- (ii) a crossbar switch having input/output ports coupled to the second directors on such one of the second director boards and a pair of output/input ports (see figure 1 element 42 and figure 7 element 224);
- (c) a data transfer section having a cache memory, such cache memory being coupled to the plurality of first and second directors (see figure 2 elements 82, 92 and column 7 lines 25-34 and figure 7 and column 14 lines 4-18);
- (d) a message network, operative independently of the data transfer section (see figures 1 element 40); and
- (e) wherein the first and second directors control data transfer between the first directors and the second directors in response to messages passing between the first directors and the second directors through the message network to facilitate data transfer between first directors and the second directors with such data passing through the cache memory in the data transfer section (see column 7 lines 63-68 and column 6 lines 1-15).
- 6. As to claim 2, Martin teaches the system interface recited in claim 1 wherein each one of the first directors includes:
- a data pipe coupled between an input of such one of the first directors and the cache memory (see figure 3 elements 138, 140, 142, 144 and column 10 lines 56-62); a controller for transferring the messages between the message network and such one of the first directors (see column 6 lines 7-11).
- 7. As to claim 3, Martin teaches the system interface recited in claim 1 wherein each one of the second directors includes:

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a data pipe coupled between an input of such one of the second directors and the cache memory (see figure 8 element 316 and column 15 lines 62-66);
a controller for transferring the messages between the message network and such one of the second directors (see figure 2 elements 40, 62, 48).

- 8. Claim 4 is of similar scope as claim 4 and is therefore rejected under same rationale.
- 9. As to claim 5, Martin teaches the system interface recited in claim 1 wherein each one of the first directors includes:

a data pipe coupled between an input of such one of the first directors and the cache a memory (see figure 3 elements 138, 140, 142, 144 and column 10 lines 56-62);

a microprocessor (see figure 3 elements 124, 126, 128); and

a controller coupled to the microprocessor and the data pipe (see figure 2 elements 40, 122) for controlling the transfer of the messages between the message network and such one of the first directors (see column 6 lines 7-11) and for controlling the data between the input of such one of the first directors and the cache memory (see column 8 lines 10-18).

10. As to claim 6, Martin teaches the system interface recited in claim 1 wherein each one of the second directors includes:

a data pipe coupled between an input of such one of the second directors and the cache memory (see figure 8 element 316 and column 15 lines 62-66);

a microprocessor (see figure 3 elements 124, 126, 128); and

a controller coupled to the microprocessor and the data pipe (see figure 2 element 40, 122) for controlling the transfer of the messages between the message network and such one of

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the second directors (see figure 2 elements 40, 62, 48) and for controlling the data between the input of such one of the second directors and the cache memory (see column 15 lines 44-58).

- 11. Claim 7 is of similar scope as claim 6 and is therefore rejected under same rationale.
- 12. Claims 8-14 are of similar scope as claims 1-7 and are therefore rejected under same rationale.

Conclusion

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mike Nguyen whose telephone number is (703) 305-5040 or email is mike nguyen@uspto.gov. The examiner can normally be reached on Monday through Friday from 8:00 AM to 5:00 PM.

The appropriate fax number for the organization where this application or proceeding is assigned is (703) 746-7240.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Jeffrey Gaffin, can be reached on (703) 308-3301.

Any inquiry of a general nature or relating to the status of this application should be directed to the group receptionist whose telephone number is (703) 305-3900.

SUPERVISURY PATENT EXAMINER

Mike Nguyen Patent Examiner Group Art Unit 2182

10/16/2002